

Topic Suggestions

Take a brief survey at [Science Buddies](https://www.sciencebuddies.org) and the site will recommend project ideas that may be a great fit for you!

Behavioral Science

- Cell Phones and Driving: Does cell phone use affect driving ability in a video game simulation?
- Cell Phones: Does the amount a person text influence their spelling abilities?
- Eyewitness Testimony: How reliable are eyewitness reports?
- Memory: Do mnemonic devices actually help people remember things?
- Learning: How does music influence learning and memory?
- Learning: What is the relationship between physical exercise and learning?
- Sleep and Grades: Does the amount of sleep that students get affect their grades?
- Reflexes: Does gender affect react time to colors and words?
- Food: Does eating breakfast affect attention span?
- Mood: What effect does tanning have on a persons mood?

Biochemistry, Medicine, Health and Microbiology

- Bacteria: Are antibacterial hand lotions effective in reducing bacteria populations?
- Bacteria: How well do we wash our hands?
- Bacteria: How clean are the tops of soda cans and what is the most effective way to clean them?
- Blood Pressure: What effect does playing a video game have on a person's blood pressure?
- Caffeine: What affect does caffeine have on fruit flies?
- Caffeine: Are the motor skills of teachers or students affected more by caffeine consumption
- Vitamins: What brand of orange juice has the most vitamin C?
- Body Temperature: How does eating cold/ hot food change a person's body temperature?
- Arthritis: Does magnetic energy have any affect on lessening the pain associated with arthritis?
- Food: How does cooking time and cooking temperature affect the fat content of french fries?

Biology and Botany

- Animal: How does size affect the breathing rates of tropical fish?
- Animal: How do laws/policies on deer hunting affect deer populations?
- Animal: Are natural sponges more absorbent than synthetic sponges?
- Animal: What color bird feeder attracts the most birds?
- Animal: What factors attract or detract mosquitoes?
- Plants: What type of music increases plant growth the most?
- Plants: What can you do to prevent the growth of mold on store bought bread?
- Plants: Which is better organic fertilizer or chemical fertilizer?

- Plants: What affects do different over the counter medications have on plant growth?
- Plants: How does cigarette smoke effect plant maturation?

Chemistry

- pH Levels: What are the effects of different foods on the pH level of the mouth?
- pH Levels: What components affect soil pH?
- Aluminum: Does aluminum leach out of Teflon pans?
- Chemical Reactions: How does water hardness affect the color of hair dye and how long the color lasts?
- Chemical Reactions: What materials are strongest when reacting to acid rain?
- Chemical Reactions: Which product waterproofs leather shoes the best, and why?
- Oxidation: How do you prevent the oxidation of apples?
- Corrosion: What factors affect corrosion in aluminum foil?
- Electrochemistry: How do the levels of salt and vinegar affect the amount of gas produced by electrolysis of water?
- Magnetism: How does temperature affect a magnet?

Earth and Environmental Science

- Earthquakes: Do earthquakes tend to occur at a certain time of day?
- Weather: How accurate are Web-based weather forecasting services?
- Weather: What are the effects of the weather and human emotions?
- Pesticides: Are organic or chemical pesticides more effective for controlling grasshoppers and locusts?
- Wind: What is the relation between wind direction and temperature inversions?
- Water: Does fresh water or salt water hold heater longer?
- Sewage Treatment: How do common household chemicals affect the effectiveness of sewage treatment?
- Pollution: Is snow safe to eat?
- Oil Spills: Why are some animals able to survive an oil spill?
- Recycling: What reusable items make the best soil/fertilizer for indoor plants?

Engineering

- Sound: How does drywall thickness affect sound transmission?
- Aerodynamics: What is the most aerodynamic bike wheel?
- Concrete: Are there any recycled materials that can actually strengthen concrete?
- Flight: What paper makes the best flying paper airplane?
- Structures: How strong/safe is a playground jungle gym?
- Structures: Which design of skyscraper best withstands wind?
- Structures: Can fences be used to create snowdrifts in desirable locations?
- Solar Cells: How does temperature affect the efficiency of a solar cell?
- Steel: What steel make up will rust fastest?
- Insulation: Can corn byproducts be used as an effective insulation material?

Math & Computer Science

- Artificial Intelligence: Does alpha-beta pruning improve program efficiency?
- Calculations: Can a calculator be wrong?
- Computer Speed: Is there such a thing as “too fast” when it comes to a computer's operating system?
- Biometrics: Can vocal wave patterns be used to identify individuals?
- Robotics: Can a robot be programmed to learn and reproduce a path to a target?
- Education: Are online storage centers safe places to keep student records?
- Cellular Automata: How do various rules affect a two-dimensional system of cellular automata?
- Computer Modeling: How do snow crystals grow?
- Video Games: Do you have to win for the video game to be fun?
- Video Games: Do you actually learn anything about playing an instrument in video game simulations?

Physics

- Dynamics: Does the height to which a golf ball bounces when dropped affect how far it will travel when struck by a golf club?
- Dynamics: How does temperature affect the bounciness of a bouncy ball?
- Dynamics: How does air pressure affect a soccer ball's flight?
- Force: Can eggs withstand a greater force from one direction to another?
- Sound: How does the material of a violin string affect how long it will stay in tune?
- Liquids: How does the viscosity of motor oil change as it is used in an engine?
- Light: How does water droplet size affect the brilliance of a rainbow?
- Materials: Which materials are best at blocking radio waves?
- Magnets: What affects the strength of an electromagnet?
- Energy: What brand of battery lasts the longest?